PTO/SB/21 (08-03) Approved for use through 08/30/2003. OMB 0651-0031 U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number. Application Number 10/645,306 **TRANSMITTAL** Filing Date August 21, 2003 -**FORM** First Named Inventor Choi, Byung-Jin Art Unit 1763 (to be used for all correspondence after initial filing) **Examiner Name** Unassigned Attorney Docket Number P86/MII-46-28-03 Total Number of Pages in This Submission **ENCLOSURES** (Check all that apply) After Allowance communication Fee Transmittal Form Drawing(s) to Technology Center (TC) Appeal Communication to Board Licensing-related Papers Fee Attached of Appeals and Interferences Appeal Communication to TC Petition (Appeal Notice, Brief, Reply Brief) Amendment/Reply Petition to Convert to a Proprietary Information After Final Provisional Application Power of Attorney, Revocation Status Letter Affidavits/declaration(s) Change of Correspondence Address Other Enclosure(s) (please Terminal Disclaimer Identify below): **Extension of Time Request** Form 1449 - IDS Request for Refund **Express Abandonment Request** Sixty (60) References Return Receipt Postcard to Kenneth Brooks CD, Number of CD(s) Information Disclosure Statement Remarks Certified Copy of Priority Document(s) Response to Missing Parts/ Incomplete Application Response to Missing Parts under 37 CFR 1.52 or 1.53 SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT Firm Law Office of Kenneth C. Brooks Individual name Signature Date February 23, 2004 CERTIFICATE OF TRANSMISSION/MAILING I hereby certify that this correspondence is being facsimile transmitted to the USPTO or deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on the date shown below. Typed or printed name Alexis Sheffield

This collection of information is required by 37 CFR 1.5. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant:Choi et al.PATENT APPLICATIONSerial No.:10/645,306Group Art Unit:1763Filing Date:08/21/2003Examiner:Unassigned

For: CAPILLARY IMPRINTING TECHNIQUE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure under 37 C.F.R. § 1.56. Form PTO-1449 and a copy of each reference recited below accompanies this document. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

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4,731,155	Napoli et al.	03/15/1988
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5,206,983	Guckel et al.	05/04/1983
5,259,926	Kuwabara et al.	11/09/1993
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- Nguyen, A. Q. "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography," University of Texas at Austin, August 2001.

CERTIFICATE OF MAILING

Respectfully Submitted,

I hereby certify that this paper (along with any paper referred to as being attached or enclosed) is being deposited with the United States Postal Service on the date shown below with sufficient postage as first class mail in a package addressed to: MAIL STOP PATENT APPLICATION, Commissioner for Patents, Alexandria, VA 22313-1450

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Typed Name: Alexis Sheffield
Date: Feb. 23 2004

Respectfully,

Kenneth C. Brooks Reg. No. 38,393

P.O. Box 81536

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet 1 of

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Complete if Known					
Application Number 10/645,306					
Filing Date	08/21/2003				
First Named Inventor	Choi et al.				
Group Art Unit 1763					
Examiner Name Unassigned					
Attorney Docket Number P86/MII-46-28-03					

U.S. Patent Document Pages, Columns, Lines,								
Examiner Initials*	Cite No.1	Number	Kind Code ² (if known)	Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Where Relevant Passages or Relevant Figures Appear		
	A1	4,267,212		Sakawaki	05-12-1981			
	A2	4,731,155		Napoli et al.	03-15-1988			
	A3	4,959,252		Bonnebat et al.	09-25-1990			
	A4	5,110,514		Soane	05-05-1992			
	A5	5,206,983		Guckel et al.	05-04-1993			
	A6	5,259,926		Kuwabara et al.	11-09-1993			
	A7 ·	5,425,848		Haisma et al.	06-20-1995			
	A8	5,480,047		Tanigawa et al.	01-02-1996			
	A9	5,512,131		Kumar et al.	04-30-1996			
	A10	5,723,176		Keyworth et al.	03-03-1998	<u> </u>		
	A11	5,753,014		Van Rijn	05-19-1998			
	A12	5,772,905		Chou	06-30-1998			
	A13	5,776,748		Singhvi et al.	07-07-1998			
	A14	5,900,160		Whitesides et al.	05-04-1999			
	A15	5,912,049		Shirley	06-15-1999			
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	A23	6,316,290		Wensel	11-13-2001			
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	A25 A26	6,355,198 6,518,168		Kim et al. Clem et al.	03-12-2002 02-11-2003			
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Substitute	for form 1449A/PTO)		Complete if Known		
				Application Number	10/645,306	
INFO	RMATION D	ISC	LOSURE	Filing Date	08/21/2003	
STATEMENT BY APPLICANT			PLICANT	First Named Inventor	Choi et al.	
				Group Art Unit	1763	
(use as many sheets as necessary)		Examiner Name	Unassigned			
Sheet	2	of	5	Attorney Docket Number	P86/MII-46-28-03	

	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.¹	Office ³	Foreign Patent Docum		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶		
	A27	DE	2800476		Lamprecht et al.	07-13-1978		+-		
	A28	JP	1-196749		Matsumoto et al.	08-08-1989		+		
	A29	wo	01/53889		Ling et al.	07-26-2001		+-		
	A30	wo	01/63361		Heidari et al.	08-30-2001		+		
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				Application Number	10/645,306	
INF	ORMATION	I DIS	CLOSURE	Filing Date	08/21/2003	
STATEMENT BY APPLICANT			PPLICANT	First Named Inventor	Choi et al.	
				Group Art Unit	1763	
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Sheet	3	of	5	Attorney Docket Number	P86/MII-46-28-03	

OTHER PRIC	OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²				
	A32	COWIE, "Polymers: Chemistry and Physics of Modern Materials," 1991, pp. 408-409, 2 nd Ed, Chapman and					
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	A36	CHOU et al., "Imprint of Sub-25 nm Vias and Trenches in Polymers," Applied Physics Letters, November 20, 1995, pp. 3114-3116, vol. 67(21).					
	A37	CHOU et al., "Imprint Lithography with 25-Nanometer Resolution," Science, Apr. 5, 1996, pp. 85-87, vol. 272.					
÷	A38	HAISMA et al., "Mold-Assisted Nanolithography: A Process for Reliable Pattern Replication," Journal of Vacuum Science and Technology, Nov/Dec 1996, pp. 4124-4128, vol. B 14(6).					
	A39	CHOU et al., "Imprint Lithography with Sub-10nm Feature Size and High Throughput," Microelectronic Engineering, 1997, pp. 237-240, vol. 35.					
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INFORMATION DISCLOSURE				Filing Date	08/21/2003
STA	STATEMENT BY APPLICANT F			First Named Inventor	Choi et al.
				Group Art Unit	1763
(use as many sheets as necessary)			ecessary)	Examiner Name	Unassigned
Sheet	4	of	5	Attorney Docket Number	P86/MII-46-28-03

OTHER PRIC	R ART - I	NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	A43	WU et al., "Large Area High Density Quantized Magnetic Disks Fabricated Using Nanoimprint Lithography,"	
	A43	Journal of Vacuum Science and Technology, Nov/Dec 1998, pp. 3825-3829, vol. B 16(6).	
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•	ļ	CHOI et al., "Methods for High-Precision Gap and Orientation Sensing Between a Transparent Template			
	A54	and Substrate for Imprint Lithography," U.S. Patent Application 09/920,341, Filed with USPTO on August 1, 2001.	-		
	A55	Nguyen, A. Q., "Asymmetric Fluid-Structure Dynamics in Nanoscale Imprint Lithography," University of Texas at Austin, August 2001.			
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	A60	10/194,414, Filed with USPTO July 11, 2002.			

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